

1                   THE EMBODIMENTS OF THE INVENTION IN WHICH AND  
2 EXCLUSIVE PROPERTY OR PRIVILEGE IS CLAIMED ARE DEFINED AS  
3 FOLLOWS:  
4

5                   1.     A system for improving compliance in a pediatric population for  
6 the use of ventilation masks and headgear and providing size recognition  
7 comprising:

8                         a plurality of masks and headgear of predetermined known matched  
9 and serial sizes so as to fit a range of pediatric patients; and

10                        a size indicator being a predetermined visage of a caricature  
11 represented on each of the plurality of masks, each caricature being predetermined  
12 to represent one of each of the plurality of sizes.

13  
14                   2.     The system as described in claim 1 wherein each mask further  
15 comprises:

16                         a concave shell having  
17                         at least one flexible cuff attached about a periphery of the shell and  
18 having an opening for receiving a patients nose or nose and mouth;

19                         a port in the shell for receiving a tubing for attachment to a ventilation  
20 device;

21                         at least one exhalation port; and

22                         means for attachment to a headgear.

1                   3.     The system as described in claim 1 wherein the shell further  
2 comprises at least one other port having a removable cap.

3  
4                   4.     The system as described in claim 1 wherein the headgear  
5 comprises:

6                   a cap; and

7                   a plurality of straps, each strap being attached to the headgear at a  
8 first end and having means for attachment to the mask at a second end.

9  
10                  5.     The system as described in claim 4 wherein the means of  
11 attachment of the headgear straps to the mask comprise:

12                  a plurality of raised buttons located at the periphery of the mask shell;

13 and

14                  a shaped slot formed in the second end of each strap for retaining the  
15 button.

16  
17                  6.     The system as described in claim 5 further comprising:

18                  a first headgear strap is attached from a peak in the cap over the  
19 bridge of the nose to a top of the mask shell so as to not impair vision; and

20                  second and third headgear straps extending outwards in opposing  
21 directions from a neck edge of the cap to attach to buttons on a first and second side  
22 of the mask shell.

1                   7.     The system as described in claim 3 wherein the headgear  
2 further comprises a chin strap so as to prevent mouth leaks.

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4                   8.     The system as described in claim 1 wherein the caricature on  
5 the mask is an animal face.

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7                   9.     The system as described in claim 4 further comprising a  
8 matching aspect, further identifying the caricature, attached to the headgear.

9  
10                  10.    The system as described in claim 4 further comprising ears  
11 attached to the headgear.

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13                  11.    The system as described in claim 10 wherein the ears match  
14 the caricature.

15  
16                  12.    The system as described in claim 9 wherein the matching  
17 aspect is ears.

18  
19                  13.    The system as described in claim 8 wherein there are two  
20 exhalation ports, the exhalation ports forming part of a nasal feature of the animal  
21 face.

1                   14. A system for improving compliance in a pediatric population for  
2 the use of ventilation masks and headgear and providing size recognition  
3 comprising:

4                   a plurality of masks and headgear of predetermined known matched  
5 and serial sizes so as to fit a range of pediatric patients wherein:

6                   the mask further comprises a concave shell; at least one flexible cuff  
7 attached about a periphery of the shell and having an opening for receiving a  
8 patients nose or nose and mouth; a port in the shell for receiving tubing for  
9 attachment to a ventilation device; at least one exhalation port; and means for  
10 attachment to the headgear; and

11                  the headgear comprises a cap and a plurality of straps having means  
12 for attachment to the mask; and

13                  a size indicator being a predetermined visage of a caricature  
14 represented on each of the plurality of masks, each caricature being predetermined  
15 to represent one of each of the plurality of sizes.

16  
17                  15. The system as described in claim 14 wherein the mask shell  
18 further comprises at least one other port having a removable cap.

1                   16.    The system as described in claim 14 wherein the means of  
2 attachment of the headgear straps to the mask comprise:

3                   a plurality of raised buttons located at the periphery of the mask shell;  
4 and  
5                   a shaped slot formed in the second end of each strap for retaining the  
6 button.

7  
8                   17.    The system as described in claim 14 further comprising:

9                   a first headgear strap is attached from a peak in the cap over the  
10 bridge of the nose to a top of the mask shell so as to not impair vision; and

11                  second and third headgear straps extending outwards in opposing  
12 directions from a neck edge of the cap to attach to buttons on a first and second side  
13 of the mask shell.

14  
15                  18.    The system as described in claim 14 wherein the headgear  
16 further comprises a chin strap so as to minimize mouth leaks.

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18                  19.    The system as described in claim 14 wherein the caricature on  
19 the mask is an animal face.

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21                  20.    The system as described in claim 14 further comprising a  
22 matching aspect, further identifying the caricature, attached to the headgear.

1           21. The system as described in claim 20 wherein the matching  
2 aspect is a set of ears.

3  
4           22. The system as described in claim 19 wherein there are two  
5 exhalation ports, the exhalation ports forming part of a nasal feature of the animal  
6 face.

7  
8           23. A mask for improving compliance in a pediatric population and  
9 providing size recognition for use with ventilation therapy, the mask comprising:

10           a concave shell having an outer periphery and having a size selected  
11 from a plurality of predetermined sizes;

12           at least one flexible cuff attached to the shell about the periphery and  
13 having an opening so as to receive a patient's nose or nose and mouth;

14           at least one port in the shell for receiving tubing;

15           at least one exhalation port; and

16           a size indicator, the indicator being indicia representing one of a  
17 plurality of caricatures, each caricature predetermined to represent one of the  
18 plurality of predetermined sizes.

19  
20           24. The mask as described in claim 23 wherein the caricature is an  
21 animal face.

1                   25.    The mask as described in claim 23 further comprising a second  
2   inflatable cuff attached within the periphery of the shell and within the flexible cuff.

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4                   26.    The mask as described in claim 23 wherein the at least one  
5   flexible cuff is removable and replaceable.

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7                   27.    The mask as described in claim 23 further comprising at least  
8   one additional port having a cap so as to administer additional inhalation gases or  
9   monitor exhalation gases.

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11                  28.    The mask as described in claim 23 further comprising a  
12   compression slip ring to retain the tubing to the shell.

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14                  29.    The mask as described in claim 23 wherein the shell is  
15   transparent.

16  
17                  30.    The mask as described in claim 24 wherein there are two  
18   exhalation ports, the exhalation ports forming part of a nasal feature of the animal  
19   face.

1                   31.    A mask for use with ventilation therapy, the mask comprising:  
2                   a concave shell having an outer periphery;  
3                   a flexible exterior cuff attached to the shell about the periphery and  
4   having an opening so as to receive a patient's nose or nose and mouth;  
5                   an inflatable interior cuff attached to the shell and positioned inside the  
6   exterior cuff, the inflatable cuff further comprising a valve port extending through the  
7   shell and in fluid communication with the inflatable cuff;  
8                   at least one exhalation port; and  
9                   at least one port in the shell for receiving tubing.

10  
11                  32.    The mask as described in claim 31 having a removable exterior  
12   cuff, the mask further comprising:

13                  a lip formed about the periphery of the shell for forming a space  
14   between the shell and the lip; and

15                  an exterior cuff having a flexible compressible edge, the edge sized  
16   slightly larger than the space so as to be fit in the space when compressed and  
17   retained therein.

18  
19                  33.    The mask as described in claim 31 further comprising at least  
20   one additional port having a cap so as to administer additional inhalation gases or  
21   monitor exhalation gases.